

**The National Geodetic Survey  
and  
New Hampshire Department of Transportation  
in conjunction with the  
Northeast States Geodetic Conference**

Invite you to a  
**Height Modernization Forum**

January 13, 2004  
New Hampshire Department of Transportation  
7 Hazen Drive  
Concord, New Hampshire

**Height Modernization** is a series of activities designed to advance and promote the determination of more accurate elevations by lining Global Positioning System (GPS) surveying with traditional spirit leveling. Height Modernization includes research and development activities seeking to improve the determination of geometric elevations by GPS surveys as well as activities seeking to improve the determination of geoid height. It includes activities leading to improved height determination for both the static surveyor and the moving navigator.

The National Geodetic Survey and the Department of Transportations of the Northeast are offering this Height Modernization Forum (organized for sharing of experiences and needs in a town hall environment) for surveyors and other land information professionals engaged in height modernization and the use of improved elevations for accurate engineering applications.

Attendance is encouraged for:  
Surveyors  
Environmentalists and Resource Managers  
Engineers and GIS Professionals  
Floodplain Mappers  
Emergency Response Personnel

**Height Modernization Forum - Preliminary Program**  
**NHDOT, Concord, NH**  
**January 13, 2004**

<b>Agenda</b>		
<b>Time</b>	<b>Topic</b>	<b>Presenter(s)</b>
8:30 – 9:00 am	<b>Registration</b>	
9:00 – 9:15 am	Greetings and Introductions	Curt Crow & Craig Green (NHDOT)
9:15 – 9:45 am	National Height Modernization Program: Overview	Gilbert Mitchell (NGS)
9:45 – 10:30 am	Height Modernization Primer: GPS Derived Heights, Datums, and Coordinates	Renee Shields (NGS)
10:30 – 10:45 am	<b>Break</b>	
10:45 – 11:45 am	State Perspectives	Dan Martin (VT) & Don D’Onofrio (CA)
11:45 – 12:00 am	Introduction and Identification of Discussion Topics,	Gilbert & Renee
12:00 – 1:00 pm	<b>Lunch</b>	
1:00 – 1:15 pm	Focus Group Instructions and Examples	Gilbert & Renee
1:15 – 2:15 pm	Focus Group Discussions	Attendees
2:15 – 2:30 pm	<b>Break</b>	
2:30 – 3:30 pm	Focus Group Reports with Panel Discussion	Focus Groups
3:30 – 4:00 pm	<b>Wrap-up Questions and Answers</b>	All

Please visit the NGS Height Modernization Website for  
detailed information on the program:  
[www.ngs.noaa.gov/initiatives/height\\_modernization.shtml](http://www.ngs.noaa.gov/initiatives/height_modernization.shtml)

**There is no charge to participants, but space is limited and registration is  
strongly encouraged to guarantee a seat.**

**Height Modernization Forum  
NHDOT, Concord, NH  
January 13, 2004**

**Registration Form**

Please complete the information below and send information to Curt Crow  
via email: [curt.crow@noaa.gov](mailto:curt.crow@noaa.gov)  
fax: 603-271-7025  
phone: 603-271-1600

Name(s)

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Title

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Organization

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Address

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City/State/Zip

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PHONE/FAX

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Email address

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**Directions to the NHDOT Headquarters, 7 Hazen Drive, Concord, NH:**

**From the north:** I-93 south to Exit 14 (Loudon Road), then left at end of the ramp. Continue 1/2 mile east on Loudon Road to Hazen Drive. J.O. Morton Building is the first building on the left.

**From the south:** I-93 north to Exit 14 (Loudon Road), then right at end of the ramp. Continue 1/2 mile east on Loudon Road to Hazen Drive. J.O. Morton Building is the first building on the left.

**From the east:** I-393 west to Exit 2 (Eastside Drive), then left at end of ramp. Continue to second set of lights, then right to Hazen Drive. J.O. Morton Building is 1/2 mile on the right.

**From the west:** I-89 south to I-93 north to Exit 14 (Loudon Road), then right at bottom of the ramp. Continue 1/2 mile east on Loudon Road to Hazen Drive. J.O. Morton Building is the first building on the left.

**The Manchester, NH Airport (MHT) is conveniently located about 30 minutes south of Concord.**